AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

 (Currently Amended) A gray scale reference voltage-generator for connection-te-column drivers of driver for a thick dielectric electroluminescent display, comprising:

a counter fer-receiving gray level data from an incoming video signal and in response counting for a time interval proportional to said gray level data; and

a non linear voltage ramp <u>generator</u> connected to said counter-fer generating, said non linear voltage ramp generator outputting a ramping voltage for application to said-celumn-drivers-columns of said display during said time interval, wherein said ramping voltage conforms to a curve having an inverted s-shape, with an initial convex portion followed by a concave portion so as to compensate for luminance versus voltage characteristics of said thick dielectric electroluminescent display.

- (Currently Amended) The gray scale reference-voltage-generator-column driver of claim 1, wherein said initial convex portion conforms generally to a negative second derivative with respect to said time interval, and said concave portion conforms generally to a positive second derivative with respect to said time interval.
- (Currently Amended) The gray scale reference veltage generator-column driver of claim 1, wherein said counter is an 8-bit counter for delineating said time interval to fully define 256 gray levels.
- 4. (Currently Amended) The gray scale reference-voltage generator-column driver of claim 1, wherein said ramping voltage for a negative row voltage is $V_{g n e g}(t_m t)$ expressed as a function of the difference between the time t_m for the ramping voltage to reach a maximum luminance voltage value V_m at the end of said time interval, and

<u>wherein</u> said ramping voltage for a positive row voltage is $V_{g pos.}(t)$, where $V_{g pos.}(t) = V_m - V_{n pos.}(t_m - t)$ and said gray level data is converted to complement valves.

- 5. (Currently Amended) The gray scale reference-veltage-generator-column driver of claim 4, wherein said non-linear-non linear voltage ramp generator further comprises an integrator circuit and at least two current sources for-generating and applying different currents to said integrator circuit such that when a first one of said current sources is connected to said integrator circuit a first segment of said ramping voltage is generated, when both of said current sources are connected in parallel to said integrator circuit a second segment of said ramping voltage is generated, and when the second one of said current sources is connected to said integrator circuit a final segment of said ramping voltage is generated.
- 6. (Currently Amended) The gray scale reference-veltage-generater-<u>column</u> <u>driver</u> of claim 5, wherein said first one of said current sources generates a current that decreases during said time interval, and said second one of said current sources generates a current that increases during said time interval.
- (Currently Amended) The gray scale reference-veltage-generator-column driver of claim 5, wherein said at least two current sources are time-dependent voltage feedback controlled current sources.
- (Withdrawn) The gray scale reference voltage generator column driver of claim 5, wherein said at least two current sources are constant current sources.
- (Currently Amended) The gray scale reference veltage generator column driver of claim 5, wherein said non-linear non linear voltage ramp generator further comprises a threshold control circuit for controlled switching between said two current sources.
- 10. (Currently Amended) The gray scale reference voltage generater column driver of claim 5, wherein said nen-linear-non linear voltage ramp generator further comprises a frame polarity control circuit for to select selecting between said ramping voltage for a positive row voltage and said ramping voltage for a negative row voltage.

- 11. (Currently Amended) The gray scale reference veltage-generator-column driver of claim 5, wherein said current sources further include control inputs for controlling curvature of said first and second segments respectively.
- 12. (Currently Amended) The gray scale reference voltage generator-column driver of claim 9, wherein said threshold control circuit further includes a control input fer setting a transition voltage between said first and second segments of said ramping voltage.